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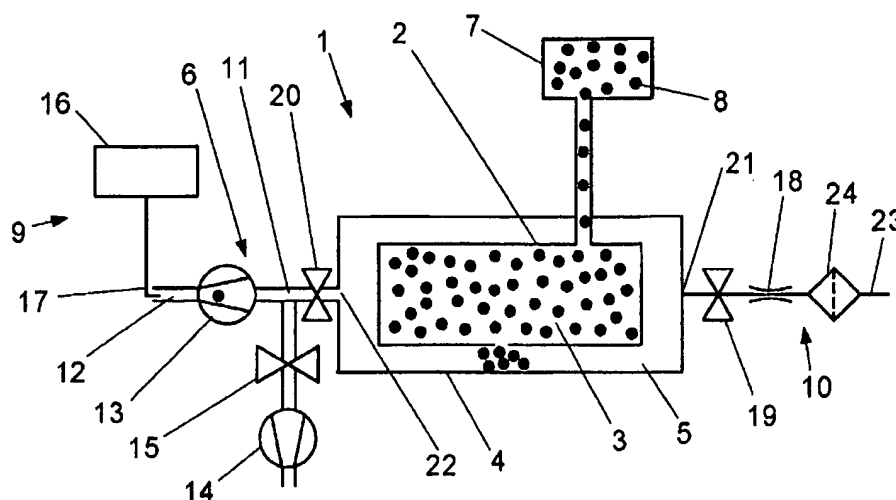
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(54) Title: **SYSTEM AND METHOD FOR DETERMINING THE LEAKPROOFNESS OF AN OBJECT**



(57) Abstract: The present invention refers to a system (1) and a method for determining the leakproofness of an object (2) having a first cavity (3). The system (1) comprises a closed chamber (4) having a second cavity (5) being arranged to envelope the object (2), evacuating means (6) for lowering the pressure inside one of the cavities (3, 5), supplying means (7) for supplying a tracer gas (8) into the one of the cavities (3, 5) rendered the higher pressure, detecting means (9) being sensitive to the tracer gas (8) and introduction means (10) for introducing a transport gas into the one of the cavities (3, 5) rendered the lower pressure. Furthermore, the evacuating means (6) is arranged to compress arriving gas to the ambient pressure of the chamber (4) and to communicate with the detecting means (9), which is suited for operation at the ambient pressure of the chamber (4). The tracer gas is hydrogen.